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Rogel'berg, L. N., Kuznetsov, G. M., and Sobolenko, T. M.
X-RAY INVESTIGATION OF SOLID SOLUTION BREAKDOWN IN ALUMINIUM ALLOYS AFTER QUENCHING AND DEFORMATION. [Aug 63] 7 refs. Order from SIC $12.00

Trans. of Akademiya Nauk SSSR. O[tdelenie] T[ekhnicheskikh] N[auk]. Izvestiya: Metallurgiya i Toplivo, 1962, no. 3, p. 81-84.
Also available from SIC in Russian Metallurgy and Fuels, 1962, no. 3, $68.00/year.

DESCRIPTORS: *Aluminum alloys, Deformation, Quenching (Cooling), Magnesium alloys, Zinc alloys, Solids, Solutions, X-rays, Crystal lattices.

A study was made of the breakdown of solid solutions in Al-Mg alloys (7.3% Mg) which had been quenched and deformed, and annealed at various temperatures, using (Metallurgy--Structural, TT, v. 10, no. 11) (over)

63-22393

I. Title: Breakdown
I. Rogel'berg, L. N.
II. Kuznetsov, G. M.
III. Sobolenko, T. M.
IV. Scientific Information Consultants Ltd. (Gt. Brit.)

Office of Technical Services

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A-5311

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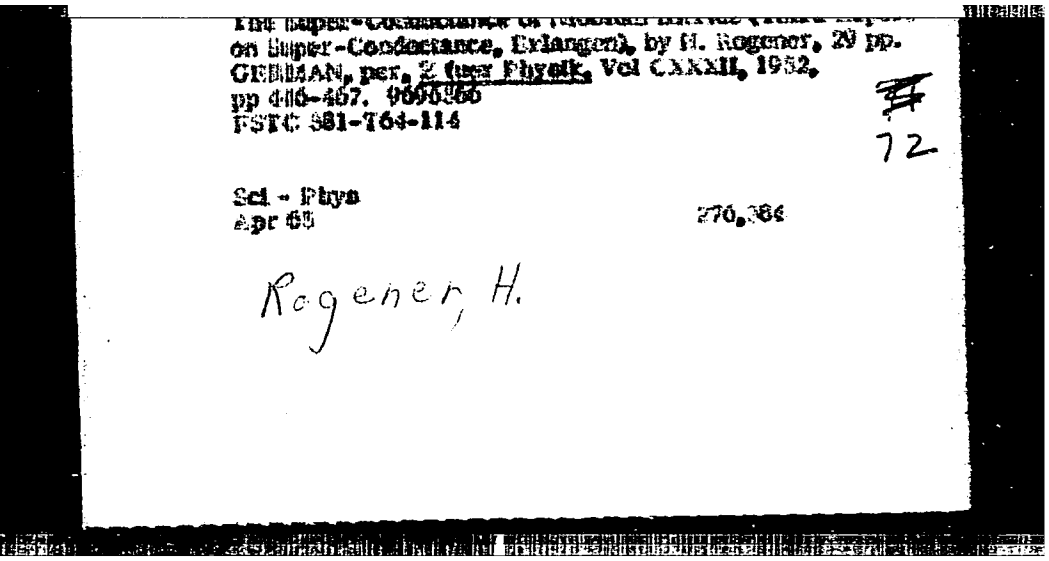

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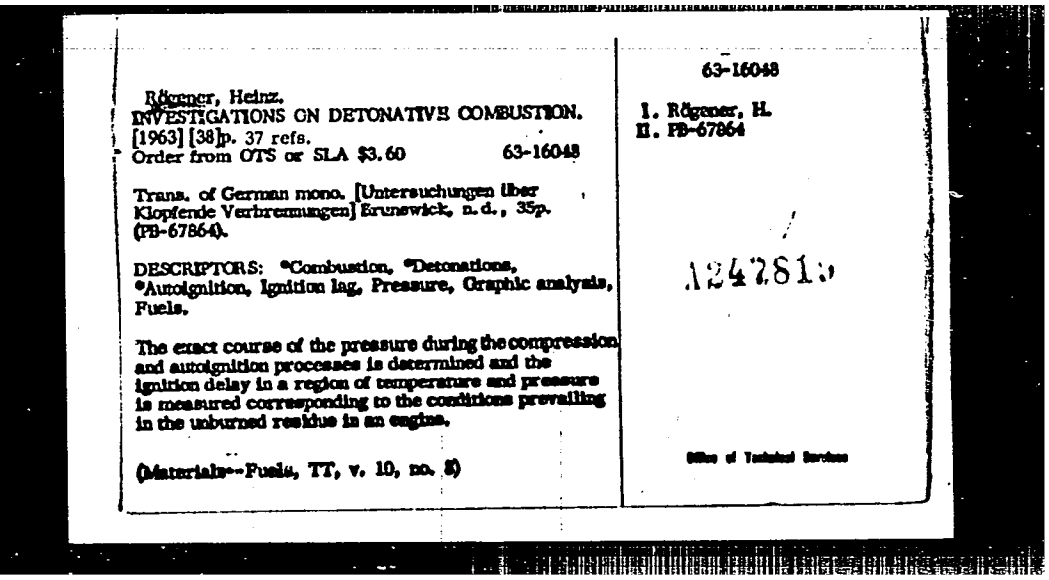

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[1963] [38]p. 37 refs.
Order from OTS or SLA $3.60 63-16048

Trans. of German mono. [Untersuchungen über Klopfende Verbrennungen] Brunswick, n.d., 35p. (PB-67864).

DESCRIPTORS: *Combustion, *Detonations, *Autoignition, Ignition lag, Pressure, Graphic analysis, Fuels.

The exact course of the pressure during the compression and autoignition processes is determined and the ignition delay in a region of temperature and pressure is measured corresponding to the conditions prevailing in the unburned residue in an engine.

(Materials--Fuels, TT, v. 10, no. 8)

63-16048

I. Rögener, H.
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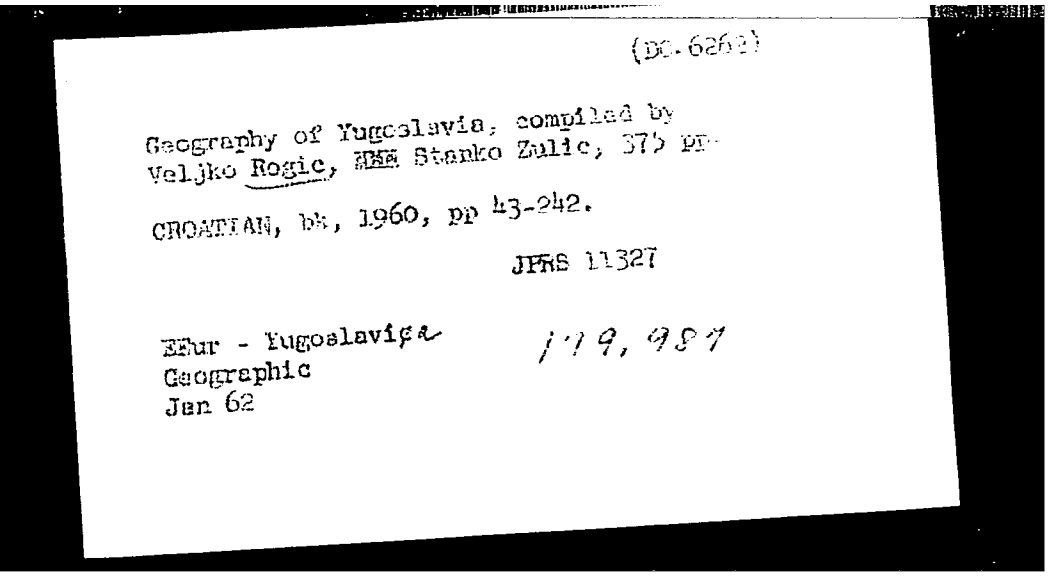

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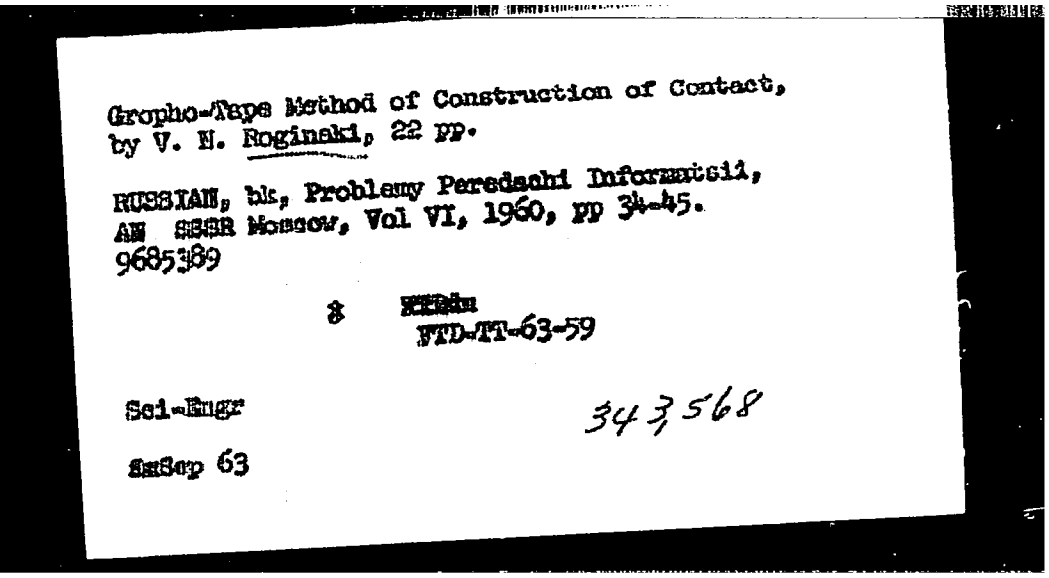

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A Simplified Spectrophotometric Method of Determining Organic Compounds by Means of Their Absorption in the Near Infrared, by Ts. N. Roginskaya and A. I. Pinkel'shtein, 2 pp

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Compensation Effect in Activation [illegible]
From the Viewpoint of Statistical Kinetics.
by S. Roginskiy, Yu. Khait.

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Order from OTS or SLA $1.60 63-19207

Trans. of Acta Physicochimica U. R. S. S., 1937, v. 6, no. 3, p. 401-418.

DESCRIPTORS: *Electrical discharges, *Chemical reactions, *Recombination reactions, *Hydrogen, *Nitrogen, *Oxygen, *Platinum catalysts, *Tungsten, *Argon, Stabilization, Metals, Oxides, Surfaces

The recombination of hydrogen and nitrogen atoms on Pt and W over a wide range of temperature was investi- (Chemistry--Physical, TT, v. 10, no. 2) (over)

63-19207

I. Roginskii, S.
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III. AmMetSoc-T-G-186
IV. American Meteorological Society, Boston, Mass.
V. Contract AF-19(604)6113
VI. Title: Investigation...

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Order from OTS or SLA $1.10 61-18172

Trans. of Acta Physicochimica U. R. S. S., 1944, v. 19, p. 225-247.

DESCRIPTORS: *Nickel catalysts, Nickel compounds, Oxides, Carbonates, Decomposition.

The decomposition of nickel carbonate is shown to proceed as an autocatalytic process. The reaction velocity increases with rising reaction supersaturation. An extremely rapid decay of carbonate is observed at partial pressures of carbon dioxide from 10^{-4} to 10^{-2} mm Hg, and a rather slow one near equilibrium. It is shown that the values of the reciprocals of the lapse of time, necessary to reach a certain degree of decompo-
(Chemistry--Physical, TT, v. 6, no. 7) (over)

61-18172

I. Roginskii, S.
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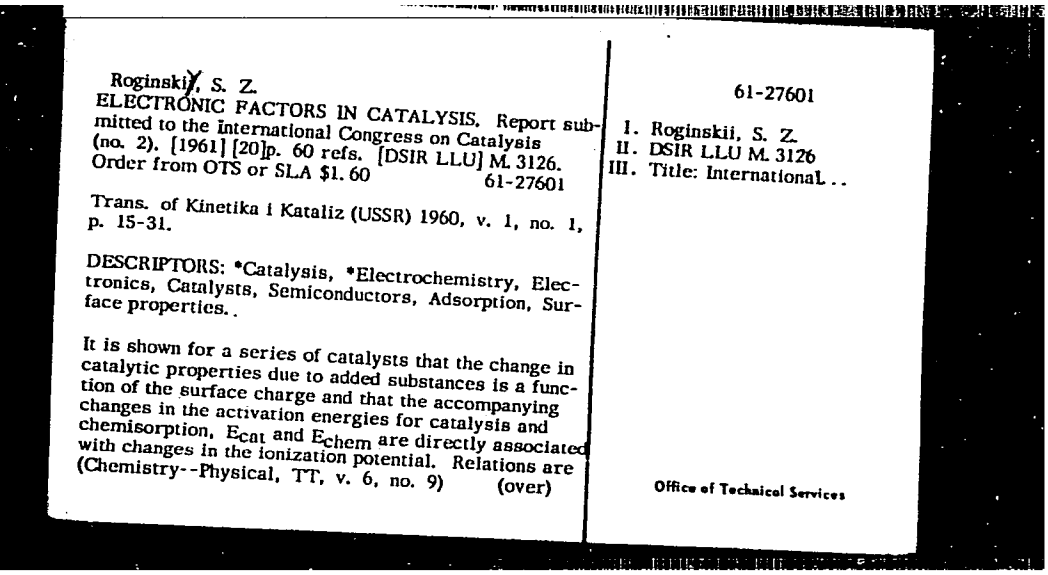

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Trans. of Kinetika i Kataliz (USSR) 1960, v. 1, no. 1, p. 15-31.

DESCRIPTORS: *Catalysis, *Electrochemistry, Electronics, Catalysts, Semiconductors, Adsorption, Surface properties.

It is shown for a series of catalysts that the change in catalytic properties due to added substances is a function of the surface charge and that the accompanying changes in the activation energies for catalysis and chemisorption, E_{cat} and E_{chem} are directly associated with changes in the ionization potential. Relations are (Chemistry--Physical, TT, v. 6, no. 9) (over)

61-27601

I. Roginskii, S. Z.
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Rational Basis of the Selection of Catalysts.
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An examination is made of kinetics without assuming (1) the presence of contamination conductivity in catalysts or (2) participation in chemisorption and catalysis of only the free current carriers--holes and electrons.

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(Chemistry--Physical, TT, v. 5, no. 12)

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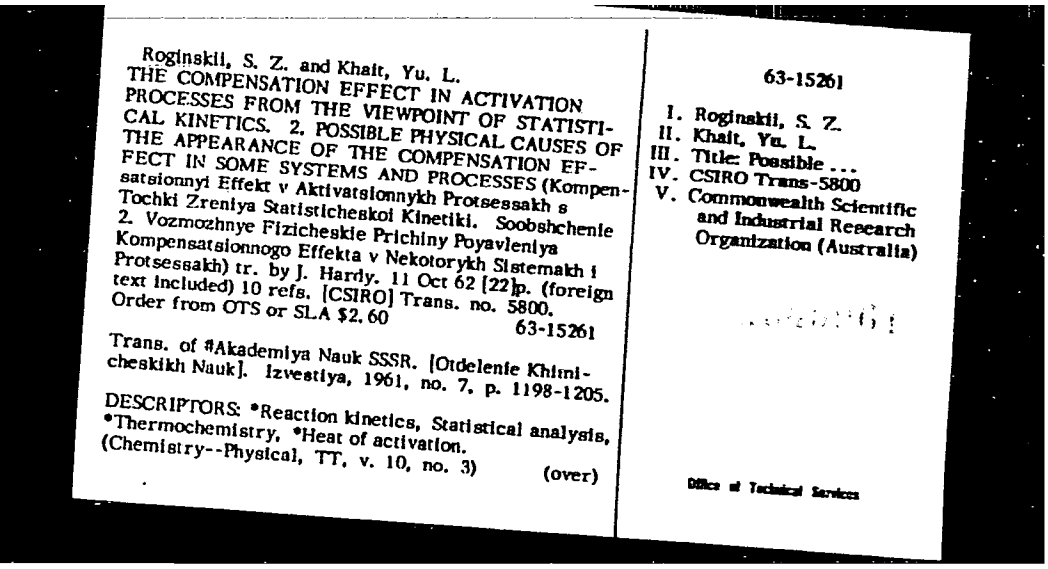

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THE COMPENSATION EFFECT IN ACTIVATION PROCESSES FROM THE VIEWPOINT OF STATISTICAL KINETICS. 2. POSSIBLE PHYSICAL CAUSES OF THE APPEARANCE OF THE COMPENSATION EFFECT IN SOME SYSTEMS AND PROCESSES (Kompensatsionnyi Effekt v Aktivatsionnykh Protsessakh s Tochki Zreniya Statisticheskoi Kinetiki. Soobshchenie 2. Vozmozhnye Fizicheskie Prichiny Poyavleniya Kompensatsionnogo Effekta v Nekotorykh Sistemakh i Protsessakh) tr. by J. Hardy. 11 Oct 62 [22]p. (foreign text included) 10 refs. [CSIRO] Trans. no. 5800. Order from OTS or SLA $2.60 63-15261

Trans. of #Akademiya Nauk SSSR. [Otdelenie Khimicheskikh Nauk]. Izvestiya, 1961, no. 7, p. 1198-1205.

DESCRIPTORS: *Reaction kinetics, Statistical analysis, *Thermochemistry, *Heat of activation. (Chemistry--Physical, TT, v. 10, no. 3) (over)

63-15261

I. Roginskii, S. Z.
II. Khait, Yu. L.
III. Title: Possible ...
IV. CSIRO Trans-5800
V. Commonwealth Scientific and Industrial Reseearch Organization (Australia)

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PLANAR CHAINS AND ACTIVE INTERMEDIATE FORMS OF HETEROGENEOUS CATALYSIS AS INDICATED BY ISOTOPIC DATA. S. Z. Roginskii. Translated from Trudy Vsesoyuz. Nauch.-Tekh. Konf. po Primenen. Radioaktiv. i Stabil. Izotopov i Izluchenii v Narod. Khoz. i Nauke, Moscow, 1957 (1958). Izotopy i Izlucheniya v Khim., p.42-50.

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